

Abstract of the Disclosure

A magnetic field distribution of a recording head is made linear so that a curvature of the magnetic-transition pattern in recording bit cells can be corrected. In a SPT head having a main pole 1 and an auxiliary pole 3, a magnetic layer 32 is disposed on a trailing side of the main pole. The magnetic layer is provided with a protruding portion 32a protruding towards the main pole. A width N_w of a side of the protruding portion opposite the main pole of the protruding portion is made smaller than a width T_{ww} of the main pole on the trailing side.